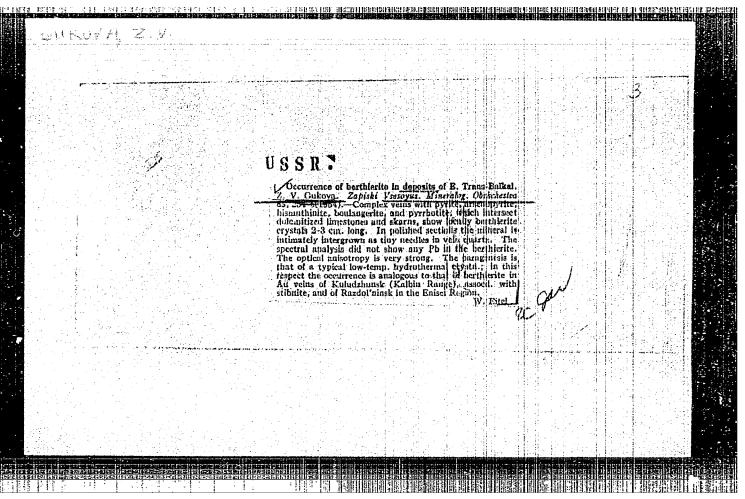


TO THE STATES OF THE STREET OF THE STATE OF THE STATES OF

SHCHERBA, Grigoriy Nikiforovich, prof., doktor geol.-mineral. nauk, zasluzhennyy deyatel'nauki KazSSR; <u>GUKOVA, Vera Dmitriyevna;</u> KUDRYASHOV, Arkadiy Vasil'yevich; SENCHILO, Nikolay Panteleyevich; NESTEROVA, I.I., red.

[Greisens, vein quartz, and potassic feldspar in molybdenumtungsten deposits of Kazakhstan.] Greizeny, zhil'nyi kvarts i kalishpaty molibdeno-vol'framovykh mestorozhdenii Kazakhstana. Alma-Ata, 1964. 306 p. (Akademiia nauk Kazakhskoi SSR. Institut geologichaskikh nauk. Trudy, vol.8) (MIRA 17:6)

ENT(1)/ENG(k)/ENP(q)/ENT(m)/HUS AFFTC/AND/ESD-3/IJP(C) L 16976-63 5/020/63/149/006/023/027 Ugay, Ya. A., Averbakh, Ye. M., Gukova, Yu. Ya., and Lavrov, V. V. AUTHOR: PROPERTY AND PROPE TITLE: A new semiconductor phase in zinc-antimony system 27 Akademiya nauk SSSR. Doklady. v. 149, no. 6, 1963, 1387-1389 PERIODICAL: TEXT: The authors investigated the intermetallic compound Zn₁Sb₃ in the Zn-Sb system, suspecting this compound to be a semiconductor. To prove this, they chose the beta-modification of Zn₁Sb₃, stably existing between -10 and 485°C. They isolated for the first time monocrystals of this compound by three different techniques and found it to be a gray substance with a metallic luster, fairly brittle, with a slightly vitreous, conchoidal fracture. Microhardness approximately 200 kg/mi2. The pycnometric specific weight of large crystals is 6.81. The possibility of cleaning this compound by zone recrystallization was demonstrated. The physicochemical and electrical properties of ZnuSba also are described here for the first time. There are 3 figures and 1 table. ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University SUBMITTED: August 3, 1962 Card 1/1



GUKOVICH, N.P.; MARKOV, A.I.

They write to us. Transp. stroi. 12 no.11:62 N '62. (MIRA 15:12)

1. Rukovoditel' brigady Kiyetgiprotransa (for Gukovich). 2. Nachal'nik otdela tekhnicheskogo kontrolya Podstepnyanskogo (for Markov).

(Railroad engineering)

GUKOVICH, V.A., kand.med.nauk

Histopathological changes in the stapes in obliterating otosclerosis and their clinical importance. Zhur.ush., nos. i gorl. bol. 24 no.5: 37-45 S-0 64. (MIRA 18:3)

1. Iz Nauchno-issledovatel'skogo instituta otolaringologii Ministerstva zdravookhraneniya UkrSSR (dir. i nauchnyy rukovoditel' zasluzhennyy deyatel' nauki prof. A.I.Kolomiychenko, konsul'tant raboty - doktor med. nauk N.Ye.Botsman).

GUKOVSKAYA Natal'ya Isidorovna, sovetnik yustitsii; SVESHNIKOV, Vyacheslav Aleksandrovich, podpolkovnik med. slushby; VASIL'YEV, A.W., kand. yurid.nauk, otvetstvennyy red.; DAMANINA, Ye.D., red.; KOSAREVA, Ye.W., tekhn.red.

[Medicolegal examination of the corose in cases of violent death; a manual for investigators] Sudebnomeditsinskaia ekspertiza trupa po delam o nasil'stvennoi smerti; posobie dlia sledovatelei.

Moskva, Gos.imd-vo iurid.lit-ry, 1957. 254 p. (MIRA 10:12)
(AUTOPSY) (MEDICAL-JURISPRUDENCE)

GUKOVSKAYA, C. A.	infected with massive doses of a live virulent cuture of typhoid bacteria. A twofold immunization with a 30 day interval between inoculations is equivalent to a threefold immunization with 7 day intervals both in regard to the effectiveness of the immunity and the percentage of survivals afterinfection.	"Zhur Mikrobiol, Epidemiol, i Immunobiol" No 3, pp 62-65 Lengthening the interval between the two inoculations in the immunization of experimental animals from 7 days to 20-30 days resulted in a much higher percentage of survivals after the animals had been percentage of survivals after the animals had been	USSR/Medicine - Typhoid "The Effect of Intervals /Between Inocultyphoid-Paratyphoid Immunization," O. A. skaya, Inst.Epidemiol and Microbiol imen. Gamaleya, Acad Med Sci USSR	
૦૧૫ ૫૧૨	we wirulent culd immunization ulations is ion with 7 day ectiveness of survivals after	' No 3, inocula- l animals nuch highes s had been 244T40	Mer 53 ations cn Gukov- 1 W. F.	

GUKOVSKAYA, O.A.: TSEYTLIN, A. Ya.

Sensitivity of serotypes of pathogenic Escherichia coli to antibiotics. Antibiotiki 7 no.12:1098-1100 D: 62 (MIRA 16:5)

1. Bakteriologicheskoye otdeleniye laboratorii (zav. V.B.Kleywer) sanitarno-epidemiologicheskoy stantsii Zhdanovskogo rayona Moskvy. (ESCHERICHIA COLI) (ANTIBIOTICS)

1. 在2月1日 (1912年) 1月1日 (1912年)

ALEKSANDROV, Pavel Sergeyevich; NEMYTSKIY, Viktor Vladimirevich; VOVCHENKO, G.D., prefesser, redaktor; GUKOVSKAYA, V.A., redaktor; KOVNATOR, R.A., redaktor; MULIN, Ye.V., tekhnicheskiy redaktor.

Viacheslay Vasillevich. Stepaner. Weskys, Isboye Meskevskege universitets, 1956-58 p. Ind. W. Harris and Market 1956. (MIRA 9:5) (Stepaner, Viacheslay Vasillevich, 1889-1950)

B

L 19453-65 EAT(d)/EAP(1) PO-4/Fg-4/Fg-4/Pk-4/P1-4 IJP(c)/ABDC(a)/SSD/ASD(a)-5/ASD(S)/AFMDC/AFETR/AFTC(p)/RAEM(a)/RAEM(d)/ESD(dp) BO ACCESSION NR: AP4047579 S/0103/64/025/010/1484/1492

AUTHOR: Gukovskiy, D. E. (Moscow)

TITLE: Statistical approach to detecting events in automatic monitoring

SOURCE: Avtomatika i telemekhanika, v. 25, no. 10, 1964, 1484-1492

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory, automatic monitoring

ABSTRACT: The problem of detecting events in a space Γ is treated as a statistical problem of event detection on the basis of distorted or incomplete data; both kinds of errors — false detection and missing detection — are involved. The use of results of measuring the direct physical quantities correlated to the quantities that determine the events being monitored is considered. A detection algorithm is selected which, in fact, is a rule for converting the observation space into a decision space Δ whose elements are possible decisions λ or

Card 1/2

L 19453-65

ACCESSION NR: AP4047579

monitored events. Two automatic-monitoring systems of dual (from two regions of the observation space) detection are analyzed; their merits are compared on the basis of cost of detection errors. The theory permits selecting an economically substantiated monitoring method for a given risk function. In cases when the risk function is directly estimable, a simple appraisal of the pragmatic value of the information used for selecting the monitoring system can be obtained. Orig. art. has: 2 figures and 47 formulas.

ASSOCIATION: none

SUBMITTED: 24Mar64

SUB CODE: IE

NO REF SOV: 002

INCL: 00

OTHER: 002

Cord 2/2

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof.; GUKOVICH, V.A., mladshiy nauchnyy sotrudnik; YASHAN, I.A., aspirant.

Method and technic for surgery on the stapes in otosclerosis. Zhur. ush., nos. i gorl. bol. 20 no.1:17-31 Ja-F '60.

(MIRA 14:5)

1. Iz kafedry bolesney ukha, gorla i nosa (zav. - sasl. deyatel' nauki prof. A.I.Kolomiychenko) Kiyevskogo instituta usovershenstvo-vaniya vrachey i surdologicheskoy laboratorii Kiyevskogo instituta ortopedii i travmatologii.

(OTOSCLEROSIS) (EAR.—SURGERY)

GUKOVICH, V.A.

Results of the work of the extended Plehum of the Board of the Ukrainian Otolaryngological Society Jointly with the Interprovince Conference (Stalino and Lugensk Provinces). Zhur. ush., nos. i gorl. bol. 20 no.5:90-96 S-0 *60. (MIRA 14:6) (UKRAINE_OTOLARYNGOLOGICAL SOCIETIES)

。 11年3月 日本中央市場市 - 11年 - 12年 -

GUKOVICH, V.A., mladshiy nauchnyy sotrudnik

State of hearing in otosclerosis at a late period following an operation for indirect mobilization of the stapes. Zhur. ush., nos. i gorl. bol. 20 no.6:25-32 N-D *60. (MIRA 15:2)

l. Iz nauchno-issledovatel'skoy surdologicheskoy laboratorii i otorinolaringologicheskoy kafedry (zav. - zasluzhennyy deyatel' nauki prof. A.I.Kolomiychenko) Kiyevskogo instituta usovershenstvo-vaniya vrachey.

(EAR_SURGERY) (OTOSCLEROSIS)

GUKOVICH, V. A., Cand. Medic. Sci. (diss) "Operation for Indirect Mobilization of "Stremen!" in Cases of Otosclerosis, "Kiev, 1961, 19 pp. (Kiev Med. Inst.) 300 copies (KL Supp 12-61, 284).

Report on the activity of the Kiev Province Otolaryngological

Report on the activity of the Kiev Province Otolaryngological Society for 1960. Zhur. ush., nos. i gorl. bol. 21 no.1:93-96 Ja-F '61. (MIRA 14:6)

1. Predsedatel' Kiyevskogo oblastnogo nauchnogo obshchestva otolaringologov (for Kolomiychenko). 2. Sekretar' Kiyevskogo oblastnogo nauchnogo obshchestva otolaringologov (for Gukovich). (KIEV PROVINCE—OTOLARYNGOLOGICAL SOCIETIES)

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof.; GUKOVICH, V.A., mladshiynauchnyy sotrudnik

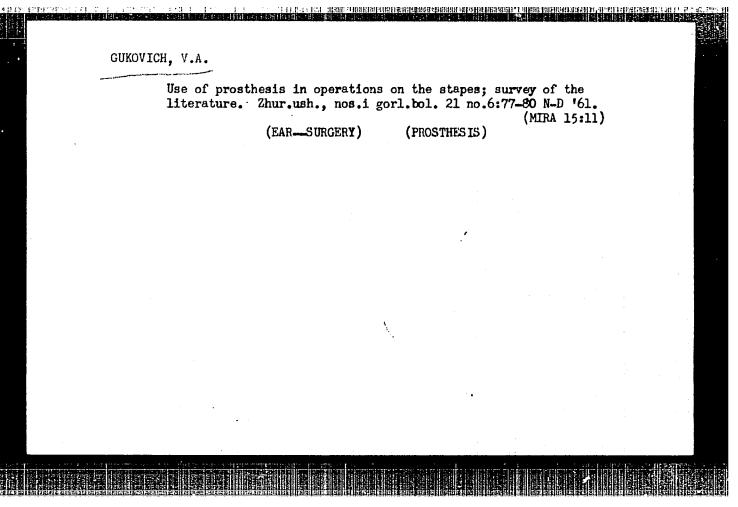
Possible ranges in the use of surgery for mobilizing the stapes.
Zhur. ush., nos. i gorl. bol. 21 no.5:6-12 S-0 '61. (MIRA 15:1)

1. Iz Nauchno-iseledovatel'skogo instituta otolaringologii (dir. - zasluzhennyy deyatel' nauki prof. A.I.Kolomiychenko);
(EAR__SURGERY)

KOLOMIYCHENKO, Aleksey Isidorovich; GUKOVICH, Valeriya Aleksandrovna; KHARSHAK, Yevgeniy Mikhaylovich; YASHAN, Ivan Artemovich; YEVDOSHCHENKO, Ye.A., red.; GITISHTEYN, A.D., tekhn. red.

[Operations on the stirrup in otosclerosis]Operatsii na stre-

[Operations on the stirrup in otosclerosis]Operatsii na stremeni pri otoskleroze. Pod obshchei red. A.I.Kolomiichenko. Kiev, Gosmedizdat USSR, 1962. 280 p. (MIRA 16:1) (OTOSCLEROSIS) (TYMPANAL ORGAN—SURGERY)



KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof.; GUKOYICH, V.A., kand.med.nauk

Report of the activity of the Kiev Province Scientific Society of Otolaryngologists for 1961. Zhur.ush., nos.i gorl.bol. 22 no.2:91-96 Mr-Ap '62. (MIRA 15:11)

1. Predsedatel' Kiyevskogo oblastnogo nauchnogo obshchestva otolaringologov (for Kolomiychenko). 2. Sekretar' Kiyevskogo oblastnogo nauchnogo obshchestva otolaringologov (for Gukovich).

(KIEV PROVINCE—OTORHINOLARYNGOLOGICAL SOCIETIES)

GUKOVICH, V.A., kand.med.nauk

Bone conductivity in otosclerosis. Zhur.ush.,nos.i gorl. bol.
22 no.4218-24 J1-Ag '62. (MIRA 16:2)

1. Iznauchno-issledovatel*skogo instituta otolaringologii Ministerstva zdravookhraneniye UkrSSR (dir. - zasluzhennyy deyatel* nauki prof. A.I. Kolomiychenko). (OTOSCLEROSIS) (HEARING)

GUKOVICH, V.A., kand. med. nauk

Surgery performed on otosclerosis patients with complete ossification of the fenestra ovalis. Zhur.ush., nos.i gor.bol.22 no.68 43-47 N-D*62. (MIRA 1637)

1. Iz Nauchno-iseledovatel skogo instituta otolaringologii Ministerstva zdravookhraneniya UkrSSR (dir.-zasluzhennyy deyatel nauki prof. A.I.Kolomiychenka). (EAR-SURGERY) (OTOSCLEROSIS)

GUKOVICH. V.A., kand.med.nauk (Kiyev)

Importance of some clinical audiometrical data in the defermination of ankylosis variants of the stapes in otosclerosis. Zhur. ush., nos.i gorl. bol. 23 no.4: 6-14 J1-Ag*63. (MIRA 16:10)

1. Iz Nauchno-issledovatel skogo instituta otolaringologii Ministerstva zdravockhraneniya UkrSSR (direktor i nauchnyy rukovoditel - zasluzhennyy deyatel nauki prof. A.I. Kolomiychenko). (AUDICMETRY) (OTOSCIEROSIS) (ANKYLOSIS)

GUKOVICH, V.A., kand. med. nauk

Unusual form of chronic catarrhal otitis. Zhur, ush., nos. i gorl. bol. 23 no.1:78-79 Ja-F ²63. (MIRA 17:2)

1. Iz surdologicheskogo otdela Nauchno-issledovatel'skogo instituta otolaringologii Ministerstva zdravookhraneniya UkrSSR (dir. - zasluzhennyy deyatel' nauki prof. A.I. Kolomiychenko).

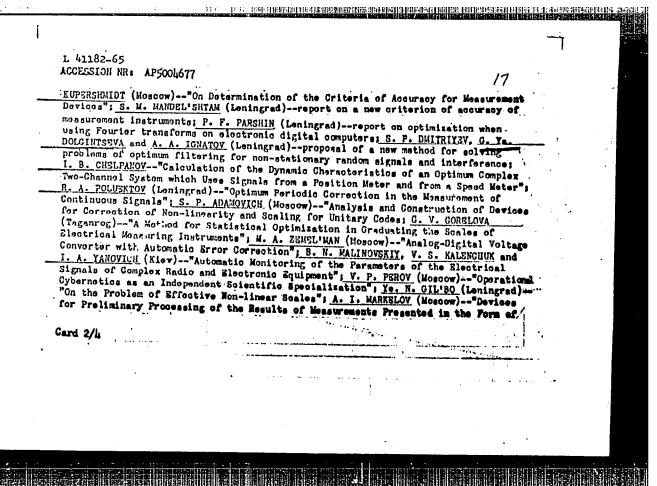
GUKOVICH, V.A., kand. med. nauk

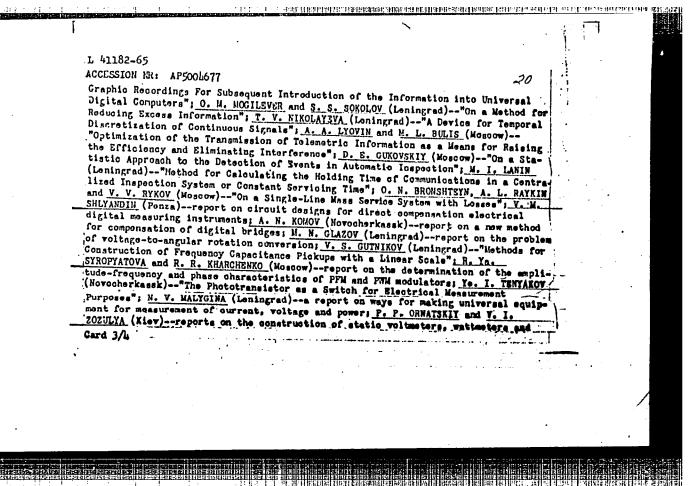
Surgical methods of treating deafness in otosclerosis with

complete obliteration of the ovel fenestra. Zhur. ush., nos. i gor. bol. 24 no.1:18-25 Ja-F '64. (MIRA 18:3)

1. Iz Nauchno-issledovatel'skogo institute otolarinogologii Ministerstva zdravookhraneniya UkrSSR (nauchnyy rukovoditel' -zasluzhennyy deyatel' nauki prof. A.I. Kolomiychenko).

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	AUTHOR: none			•	
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	SOURCE: Izaeritel'naya tekhnika, no. 9, 19	жц, 58-59 aw			7
	TOPIC TAGS: cybernetics, electric measurem digital computer, electronic equipment, ele	ment, electric quantity in ectric engineering confere	nstrument, ince		
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vibration amplitude of pnereport on the developmen	unatio hammers; L. K. RUKINA (t of a digital compensator for agrad) report on a method for	and V. G. KNORRING (Leningrad)	
pickups for gas analysis; (Kuybyshow) reports on an	Ye. M. KARPOV, V. A. BRAZHNIKO	OV and B. Ya. LIKHTTSINDER	
Pickups"; G. P. VIKHROV an	-"A High Speed Voltage-to-Dig d V. K. ISAYBV (Vilna)"A Hi M. PSRSIN (Leningrad)"A Lo	ghly Acourate Digital Peak- 📑	•
ASSOCIATION: none			
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GUKOVSKIY, D.E. (Moskva)

Statistical approach to the detection of events in automatic control. Avtom. i telem. 25 no.10:1484-1492 0 '64.

(MIRA 17:12)

. 45873-66 ACC NR. AP6013105 SOURCE CODE: UR/0231/65/000/007/0006/0011 AUTHOR: Shevchenko, L. A. (Candidate of technical sciences); Gromov, S. A. (Candidate of technical sciences); Gukovakiy, G. Ye. (Engineer) ORG: None TITLE: Experimental gas-turbine train of TaNII MPS SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel skiy institut zheleznodorozhnogo transporta. Vestnik, no. 7, 1965, 6-11 TOPIC TAGS: railway transportation, railway vehicle data, railway equipment, gas turbine engine, electric generator, electric motor, locomo hive ABSTRACT: A general description of an experimental railway gas-turbine motor car with an a-c propulsion system is presented. The motor-car propulsion system consists of a gasturbine engine, one 3-phase synchronous generator and two traction induction motors with rotors of squirrel case type. The generator excitation system is fed from an exciter mounted on the turbocompressor shaft. The auxiliary generator used for feeding lighting and control circuits and for charging storage batteries is also mounted on the same shaft. The experimental research is conducted in two stages of which the first one covers the preliminary investigations with one motor car while the second stage deals with a two-car train. The data on the 350-hp gas-turbine engine, the 400-v, 450-amp, 50-cps generator 1/2 TDC: 625.282-843.8 Card

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ACC NR: AP6013105

and 40/55-kw, 380-v induction motor are presented in tables. A general view of the motor car is shown in a photo. Electric circuit diagrams are presented for one-car and two-car versions. The arrangement of the equipment inside the motor car is also illustrated. The installation and operation of the equipment is discussed including the control of speed, reversal of rotation and brake actions. Speed-traction curves (experimental and theoretical) are established and plotted for a two-car train. It is concluded, that the investigated and tested propulsion system can successfully be used for electric railway traction. A further research and development of large gas-turbine motor cars and trains with an a-c propulsion system is strongly recommended. Orig. art. has: 5 figures.

SUB CODE:

13, 21,09/SUBM DATE: None/ ORIG REF: 003

Card 2/2 ULR

CHEMYNUMICO, M. P. : "The characteristics of consticut of monlinear mechanics included in a special first-group point." Lin Micher Education MSSE. Wack State Wiend Aligher Mayoi. Scrarkani, 1976. (Dissertation for the Degree of Candidate in Physicomathematical Science.)

Knizhnaya letopis', No. 30, 1976. Moscow.

34575 S/044/62/000/001/021/061 16,3400 C111/C444 Guk"yamukhov, M. B. AUTHOR:

The expansion of the solution of the equation of Briot TITLE: and Bouget in the neighborhood of the origin

PERIODICAL: Referativnyy zhurnal, Matematika, no. 1, 1962, 35-36.

abstract 1B175. ("Tr. Uzb. un-ta", 1958, vyp 78, 71-104)

Considered is the differential equation TEXT:

Card 1/2

 $x^{m}y^{1} = a_{0}(x) + a_{1}(x) y + a_{2}(x) y^{2} + ... \equiv f(x, y),$

where $m \ge 1$ is an integer, the functions $a_k(x)$, k = 0, 1, 2, ...being analytic in the neighborhood of x = 0, $a_0(0) = 0$, $a_1(0) > 0$, the function f(x,y) being analytic in a certain neighborhood of x=0, y=0. It is known that there exists a domain $D(0 \le x \le a, |y| \le b)$ such that at an arbitrary point $(x_0, y_0) \in D$ the solution $y = y(x, x_c, y_c)$ of (1) which passes through this point has the property: $y(x, x_0, y_0) \rightarrow 0$ for $x \rightarrow 0$. In the article it is shown in

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case of a and b being sufficiently small (estimations are given), the solution $y(x, x_0, y_0)$ for arbitrary $(x_0, y_0) \in D$ in the interval $(0, x_0)$ can be represented by the convergent series

(0,
$$x_0$$
) can be represented by the convergent series
$$y = \sum_{k=1}^{+\infty} \varphi_k (x, x_0, y_0)$$
 (2)

where the functions $\Psi_k(x, x_o, y_o)$ are calculated successively as the solutions of certain linear differential equations. The method of construction of (2) differs from the corresponding method of Bendixon. [Abstracter's note: Complete translation.]

Card 2/2

E94 PTENE

GUL', A.P.; SAVCHENKO, O.N.; STEPANOV, G.S.

Study of the estrogens in the daily urine of cattle. Fiziol. zhur. 48 no.1:91-94 Ja 162. (MIRA 15:2)

1. From the Laboratory for Physiology of Farm Animals and the Laboratory of Human Physiology and Pathology of Aging, I.P.Pavlov Institute of Physiology, Leningrad.

(ESTROGENS) (URINE_ANALYSIS AND PATHOLOGY)

GUL!, A.P.

Variations in the estrogenic function in dairy cattle due to external factors. Dokl. AN SSSR. 144 no.6:1418-1421 Je 162. (MIRA 15:6)

1. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR. Predstavleno akad. V.N.Chernigovskim.
(ESTRUS) (DAIRY CATTLE)

TO DESCRIPTION OF THE PROPERTY OF THE PROPERTY

GUL', A.P.

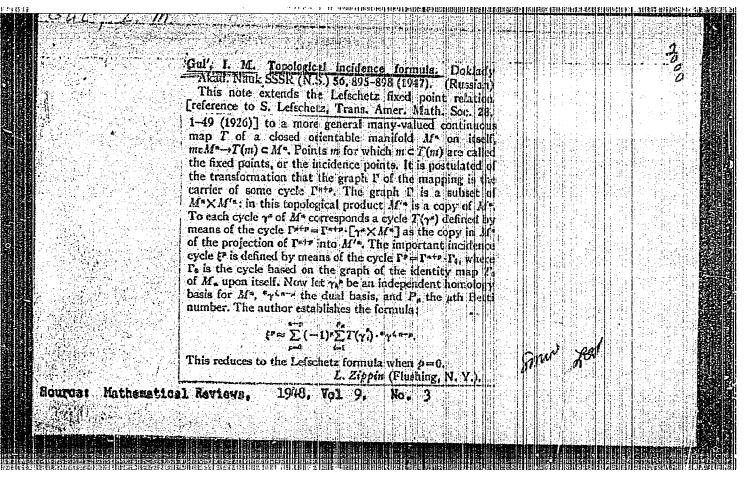
Stimulation of the reproductive function in cattle in various phases of the sexual cycle. Fiziol.zhur. 51 no.11:1363-1369 N *65. (MIRA 18:11)

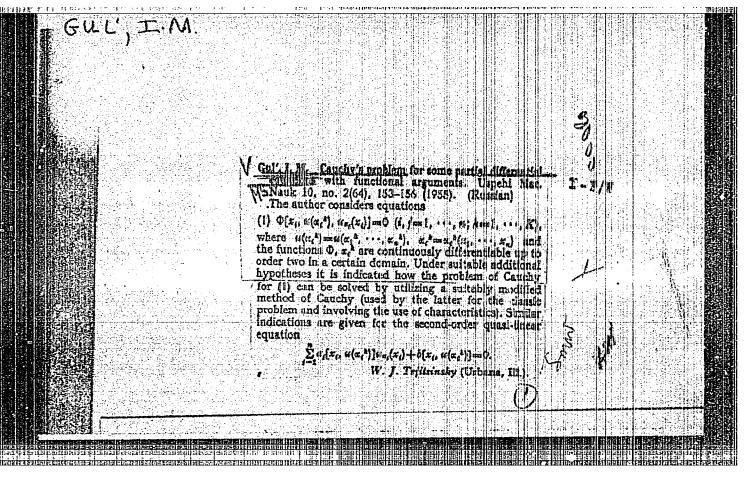
1. Institut fiziologii imeni I.P.Pavlova AN SSSR, Leningrad.

MLADENOV, Iv.; NIKOLINSKI, P.; GUL, E. V.; PETROV, N.

The influence of the branching polymers on their compatibility in blocks and solution. Doklady BAN 14 no.6:615-618 '61.

1. Vorgelegt von Akademiemitglied D. Ivanov.





IJP(C) 5/044/63/000/003/023/04 EWT(d)/FCC(w)/BDS L 13248-63 AUTHOR: Gul', I. M. Partial differential equations with functional arguments TITLE: Referativnyy Zhurnal, Matematika, No. 3, 1963, 51, Abstract 38233 PERIODICAL: (Tr. Seminara po Teorii Differents. Uravneniy s Otklonyayushchimsya Argumentom, Un-t Druzhby Narodov im. Patrisa Lumumby, no. 1, 1962, 94-102) The author examines the possibility of applying classical methods to the solution of certain partial differential equations with functional arguments. He cites the equation $\Phi\left[x_{l}, u\left(\alpha_{l}^{k}\right), \frac{\partial u\left(x_{l}\right)}{\partial x_{l}}\right] = 0$ (i, j = k, 2, ..., n; k = 1, 2, ..., K), where $u(x_1)$ is the sought function of n independent arguments $(x_1) = (x_1, x_2, \dots, x_n)$; the $u(\alpha_1^k)$ are functions of functions in the independent variables $\alpha_1^k = \alpha_1^k (x_1, x_2, \dots, x_n)$. In Card 1/3,

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L 13248-63

Partial differential equations ...

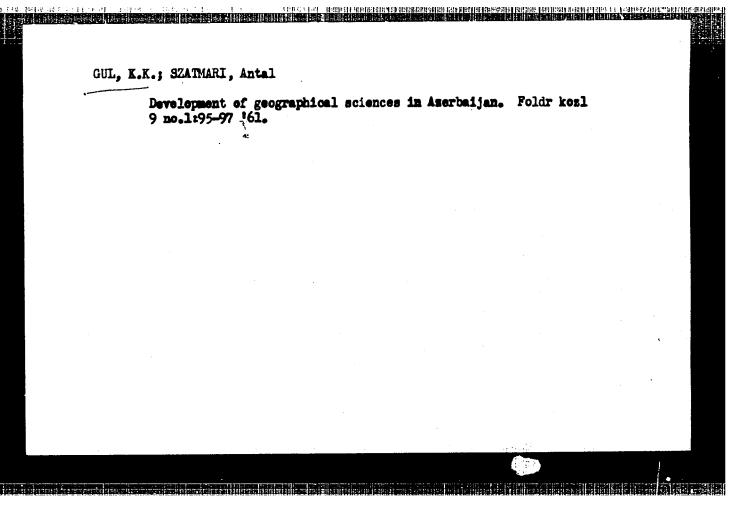
5/044/63/000/003/023/047

order to solve the Cauchy problem in this case one may apply the method of characteristics with certain changes in the construction of the solution and in the proof of its existence. Here the author points out only the basic differences from the usual classical case. He then investigates quasi-linear equations in which functional arguments appear only in the unknown function

$$\sum_{j=1}^{n} \frac{\partial u(x)}{\partial x_{j}} a_{j}[x, u(\alpha^{k})] + b[x, u(\alpha^{k})] = 0,$$

to which one may also apply the method of characteristics. In the case of hyperbolic equations the method of successive approximations is applicable to the solution of the Cauchy problem; at the same time, differences between the proofs in this case and those of the classical case are indicated.

Card 2/32



CHEPIGIN, G. V., inzh.; NEKHAY, S. M., inzh.; GUL', N. S., inzh.; CHIZHOV, A. P., inzh.

Replacing the double-cleaning oil filter with a full-flow centrifuge. Mashinostroenie no.5:95 S=0 '62.

(MIRA 16:1)

(Tractors—Engines—Oil filters)

CHEPIGIN, G.V., kand.tekhn.nauk; GUL', N.S., inzh.; CHIZHOV, A.P., inzh. KHESIN, A.Ya.

Results of the operational tests of a full-flow RMTs device on the SMD diesel engine. Trakt. i sel'khozmash. 32 no.6:12-14 Je '62. (MIRA 15:6)

1. Dnepropetrovskiy sel'skokhosyaystvennyy institut (for Chepigin, Gul', Chizhov). 2. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po dvigatelyam (for Khesin).

(Tractors—Oil filters)

CHEPIGIN, G.V.; GUL', N.S.; CHIZHOV, A.P.

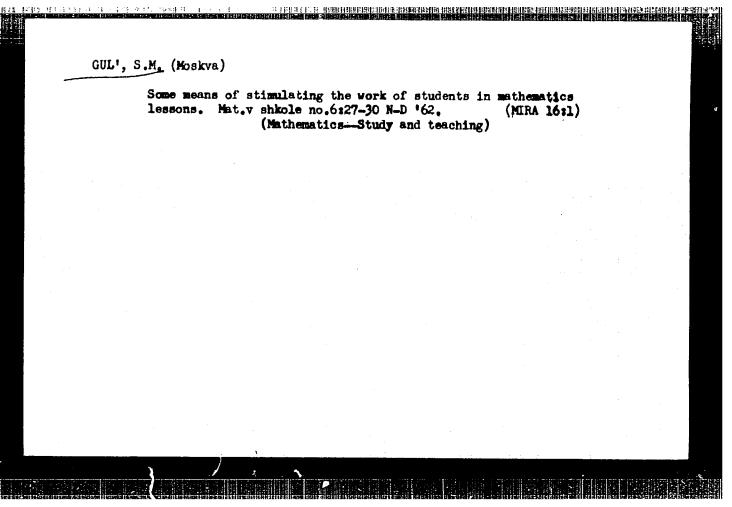
Experiments in the use of cast iron crankshafts in tractor diesel engines. Trakt. i sel'khozmash. 33 no.8:44-45 Ag '63. (MIRA 16:11)

1. Dnepropetrovskiy sel'skokhozyaystvennyy institut.

CHEPIGIN, G.V., kand. tekhn. nauk; GUL, N.S., inzh.; CHIZHOV, A.P., inzh.

Use of cast-iron crankshafts in motor-vehicle and tractor engines. Mashinostroenie no.5:112-113 S-0 '63. (MIRA 16:12)

1. Dnepropetrovskiy sel'skokhozyaystvennyy institut.

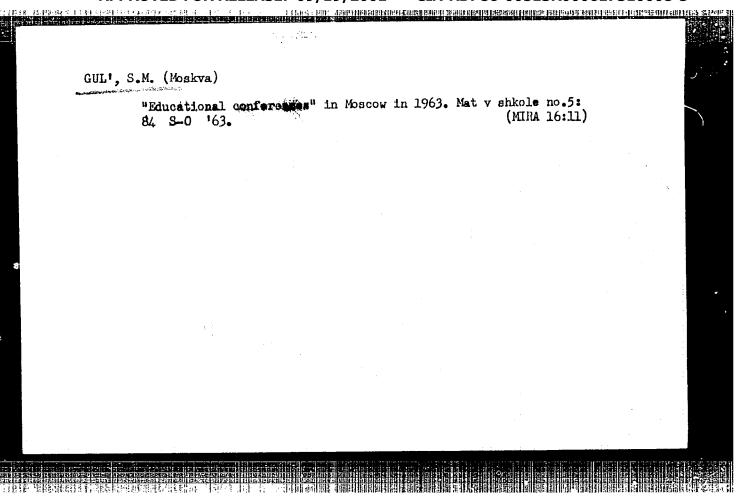


GUL:, Sergey Mikhaylovich; KAME. V. Nikolay Pawlovich; KOPYLOV, Boris Mikhaylovich; KRUKOVSKIY, Ignati; Vladislavovich; NEDOSEKIN, Dmitriy Fedorovich; SEMERIKOV, Ivan Vasil'yev: h; BARINOV, V.A., prof., doktor, retsenzent; KHAENOV, L.S., prof., doktor, retsenzent; KRASHOSECHEKOV, A.M., prepodavatel', retsenzent; POLUNICHEV, I.A., red. izd-va; BACHURINA, A.M., tekhn. red.

[Laboratory manual of geodesy] Rukovodstvo dlia prakticheskikh zaniatii po geodezii. Moskva, Goslesbumizdat, 1960. 266 p. (MIRA 14:7)

l. Moskovskiy lesotekhnicheskiy institut (for Barinov). 2. Moskovskiy institut inzhenerov vodrogo khozyaystva imeni Ye.R.Vil'yaman (for Khrenov). 3. TSentral'nyy zaochnyy lesotekhnicheskiy tekhnikum (for Krasnoshchekov)

(Surveying-Handbooks, manuals, etc.)



CIA-RDP86-00513R000617310008-5 "APPROVED FOR RELEASE: 09/19/2001

Gul', V. Ye.

TITIE:

94-1-14/24

AUTHORS: Gul', V. Ye., Mayzel', N.S., Frenkel', S.N. and Khmunin, S.F. The Insulation of Live Parts in Packaged and Assembled High-

and Iow-voltage Equipment (Izolyatsiya tokovedushchikh chastey v komplektnykh i sbornykh ustroystvakh vysokogo

i nizkogo napryazheniya)

Promyshlennaya Energetika, 1958, pp. 29 - 31 (USSR) PERIODICAL:

Extensive use is now being made of prefabricated and packaged high- and low-voltage distribution equipment. In general, Soviet equipment of this kind is larger than foreign ABSTRACT: equivalents, which is wasteful in sheet steel, aluminium busbars, etc. Current-carrying parts are usually bare and are mounted on ceramic or plastic insulators; clearances are consequently large. By insulating these parts, the equipment could be made smaller. This short article describes appropriate Yu.F. Voronkov, N.S. Il'in and Ya.N. Kaplunov participated in the development of suitable insulation. After considerable experimental work, it was decided to investigate a number of polymers including p.t.f.e., poly-amide resin 548, polyvinylbutyral, butadiene-styrol rubber and silicone rubber. The most suitable material was found to be polyethylene. In the early stages of the work, films of the Cardl/2

The Insulation of Live Parts in Packaged and Assembled High- and Iow-voltage Equipment

material were applied to the conductors, but this was not very satisfactory. The best method proved to be hot-spraying with a special pistol. Air with powdered insulating meterial in suspension is heated by an acetylene flame so that the particles pension is heated by an acetylene flame so that the particles pension is heated by an acetylene flame so that the particles pension is heated by an acetylene flame so that the particles with in molten and plastic/adhere to and build up on surfaces with insulation in this way is illustrated diagrammatically. Insulation in this way is illustrated diagrammatically. A polyethylene layer 0.9 mm thick was maintained in a humidity a chamber for 24 hours and then tested for five minutes at a chamber for 24 hours and then tested for five minutes at a chamber for 24 hours and then tested for five minutes at a chamber for 25 kV/mm without breakdown. The material was also voltage of 5 kV/mm without breakdown. The material was also tested after apposure to heat, light, frost, vibration and water and was generally satisfactory. It is concluded that polyand was generally satisfactory. It is concluded in this ethylene insulation of appropriate thickness applied in this way can be used in distribution equipment for 6 - 10 kV. The work continues. There is 1 figure.

AVAILABLE:

Library of Congress

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617310008-5"

Card 1/2

TEXT: This is the reproduction of a report made at the Conference on the Strength of Polymers, May 16-18, 1960. The report presents a theoretical interpretation of the behavior of polymers in tensile tests, developed by kafedra khimii i fiziki polimerov i protesesov ikh pererabotki MITKhT im. Lomonosova (Department of Chemistry and Physics of Polymers and of Processes of Their Treatment, Moscow Institute of Fine Chemical Technology, imeni Lomonosov) and fizicheskaya laboratoriya NIIRP (Physical Laboratory of the Scientific Research Institute of the Rubber Industry). Leboratory of the Scientific Research Institute of the Rubber Industry). Mention is made of tensile tests performed with a Schapper dynamometer, and a CKC-1 (SKS-1) time-lapse camera. In addition, motion pictures have been taken of the rupture of polyethylene addition, motion pictures have been taken of the rupture of polyethylene terephthalate in polarized light. Summing up: 1) The strength of terephthalate in polarized light. Summing up: 1) The strength of terephthalate in polarized light. Summing up: 1) The strength of terephthalate in polarized light. Summing up: 1) The strength of

PERIODICAL: Plasticheskiye massy, no. 1, 1961, 54-58

Strength of polymers

TITLE:

Bartenev, G. M. Gul', V. Ye.

: SAOHTUA

B101/B502 2/131/91/000/001/015/012

Card 2/2

bloc and 1 non-Soviet-bloc. specific behavior. There are 12 figures and 11 references: 10 Sovietaccording to different mechanisms, each of which is characterized by a temperature and deformation rate it is possible to break polymers deformation rate), an anomalous behavior may occur. 6) By changing the latter is considerably changed by certain factors (temperature, high saditional deformation, 5) The strength of polymers depends on y. specimen. This difference is characterized by the degree, Y, of inhomogeneities are growing differs from the structure of the whole instant of rupture. 4) The structure of elastomers at sites where each other. 3) The structure and properties of elastomers change at the ditions of deformation, there is either one stage or two stages following take place also in material without orientation. Depending on the conand a rapid stage corresponding to the development of cracks, which can development of "notches" (inhomogeneities) in the orientated material, dependent process of two stages: a slow stage corresponding to the 2) The rupture of polymers, like that of other substances, is a timea result, the values are apread and depend on the size of the apecimens.

8/191/8205 8/191/81/000/001/012/015 Strength of polymers

L 17798-63 ACCESSION NR: AP3006621 ABSTRACT: The adhesion of polymers to metals has been studied by determining the dependence of the adhesive bond strength on temperature and by calculating the "apparent activation energy of adhesion" (E). P-85 polyisobutylenel (molecular weight 93,000), SKB-35 sodium butadiene rubber, for SKN-18 or SKN-40 butadiene acrylonitrile copolymers were used as adhesives, and Cu or Al foil, as substrates. The adhesive bonds were subjected to stripping tests at -100-+60C' on a modified TSNIKZ Adhesion testing machine (S. S. Voyutskiy, Yu. I. Markin, Zavodsk. laboratoriya, No. 10, 1203, 1962). The type of failure was determined by electron microscopic and luminescence methods also described in the study cited. The dependence of adhesive bond strength on temperature is given in the form of plots in Figs. 1 and 2 of the Enclosure. On the basis of these plots, the following conclusions are reached: 1) The magnitude and temperature dependence of polymer-to-metal adhesive strength is determined mainly by the nature of the polymer rather than by that of the metal. 2) At room temperature the adhesive strengths of the various polymers to metals are close in value; at lower and higher temperatures they vary considerably. Card 2/3)

APPTC/ASD EPR/EWP(1)/EPF(c)/EWP(q)/EWT(m)/BDS L 17798-63 RM/MAY/WW/HM/JD Ps-4/Pc-4/Pr-4 s/0076/63/037/009/2027/2033 AP3006621 ACCESSION NR: AUTHOR: Voyutskiy, S. S.; Markin, Yu. I.; Gorchakova Gul', V. Ye. 4. Temperature de-TITLE: Adhesion of high polymers to metals. pendence and activation energy of adhesion SOURCE: Zh. fizicheskoy khimii, v. 37, no. 9, 1963, 2027-2033 TOPIC TAGS: adhesion, bonding, polymer to metal adhesion, polymer to metal bonding, adhesive strength, adhesive strength temperature dependence, activation energy of adhesion, apparent activation energy, bond, joint, adhesive, polyisobutylene P-85, sodium buta-diene rubber SKB-35, butadiene-acrylonitrile copolymer, SKN-18, SKN-40, substrate, copper, copper foil, aluminum, aluminum foil, stripping test, adhesion testing machine, TsNIKZ, failure, failure type, , electron microscope method, luminescence method, temperature effect, polar group effect, glass transition temperature, copper catalytic effect, intermolecular force Card 1/43-

L 17798-63
ACCESSION NR: AP3006621

Stripping tests should therefore be conducted in a wide temperature range. 3) An increase in the number of polar groups in the polymer molecule (copolymers SKN-18 and SKN-70) lowers the adhesive strength, owing to a drop in molecule flexibility. 4) Adhesion is lowest in the neighborhood of the glass transition temperature for all bonds except that of polyisobutylene (the causes of this exception require further study). The values of E calculated from P = P0 exp(E/RT), where P is the adhesive strength and P0 is a constant, are given in Table 1 of the Enclosure. The fact that the values of E are higher for Cu than for Al can be ascribed to the catalytic effect of Cu on the polymer and to the formation in the polymer of polar oxygen-containing groups. The magnitudes of E indicate that in the adhesive bonds considered adhesion is due to intermolecular forces rather than to covalent chemical bonds. Orig. art. has: 4 figures and 2 tables.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii

ASSOCIATION: Noskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow Institute of Fine Chemical Technology)

Card 3/#3

建议 植建设 医上颌 医神经病 医神经神经

L 31803-65 EPA(s)-2/EWT(m)/EPF(c)/EWP(v)/EPR/EWP(j)/T ACCESSION NR AM5002552 BOCK EXPLOITATION Gul!, Valentin YEvgen'yevich (Professor) Strength of polymers (Prochnost' polimerov), Hoscow, Etd-vo "Khimiye", 1964, 227 p. illus., biblio., index. Errete slip inserted. 9,000 copies printed. TOPIC TAGS: polymer, meterial strength PURPOSE AND COVERAGE: This book is the first collection said systemstization of the results of Soviet and foreign research on the problem of strength of polymers. The material is illustrated by experimental data obtained in the failure of reinforced plastics Forganic glasses, elastorers, fibers, and solid polymer systems with a large degree of transverse joining. Some features of the effect of chemical composition and the size and shape of micromolecules on polymer strength are examined. In the concluding section, the basic theories of the strength of solids and polymers are analyzed. The amount of mathematics used in the book is kept to a minimum. The book is of interest to a broad audience of engineers, technicians, and researchers concerned with the production and use of polymeric materials. TABLE OF CONTENTS [abridged]: Card 1/2

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ACCESSION NR AM5002552		
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From the author 6 Ch. I. Basic concepts and	definitions 7	
	enical properties of polymers - 42	
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the strength of polymers	composition and size and shape of madromolecules on	
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	不成的 数 中国 人名马克特 克尼克德 的复数特殊的 "我就是我们的特别,我们就是 对我们的 有一个人,我们就是这个人的,我们就是不是一个人,我们就是这个人的。"	
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L 40010-65 EWG(1)/EWT(m)/EPF(c)/EPF(n)-2/EWG(v)/EWF(v)/EFR/EWP(1)/T/EWA(t)/ EWA(1) Pc-4/Pe-5/Pr-4/Ps-4/Pu-4/Peb RPL GG/RM/WW/GS ACCESSION NR: AT4049836 5/0000/64/000/0008/0012

AUTHOR: Gol'danskiy, V. I.; Gul', V. Ye.; Yegorov, Ye. V.; Zil berg, G. A.; Mikhlin, V. E.; Rayevskiy, V. C.

TITLE: A new radiochemical method for preparing graft copolymers, and their possible uses for increasing the bond strength between rubber and fabric

SOURCE: Khimicheskiye svoystva i modifikatsiya polimerov (Chemical properties and the modification of polymers); sbornik statey. Moscow, Izd-vo Nauka, 1954, 8-12

TOPIC TAGS: graft copolymer, bond strength, rubber fabric laminate, neutron irradiation, polycaproamide, elastomer, polymer impregnation, Capron fabric

ABSTRACT: Utilizing the localized effect of neutron irradiation, a new method was developed for obtaining graft copolymers; this was based on the irradiation of emulsions containing both polymer components and a lithium (boron) compound by a flow of thermal neutrons. The graft copolymers tested wate obtained by irradiation, in a nuclear reactor, of emulsions made from a mixture of solycapromide in formic acid, containing a Li compound, with solutions of elastomers in o-xyline. Infrared spectra showed the presence of a radiochemical interaction between the celastomer molecules and polycapromide with the formation of a graft copolymer.

CIA-RDP86-00513R000617310008-5 "APPROVED FOR RELEASE: 09/19/2001

L 40010-65 ACCESSION NR: AT4049836

The composition of the resin mixture is tabulated. The rusin coating was 0.2 0.02 nm thick. The vulcanized samples were tested on a Schopper apparatus. Tabulated data show that impregnation of Capron Fabric with a non-irradiated emulsion decreases the bond strength between rubber and fibric by 30-40%, due to a decrease in the mechanical adhesion and the low cohesive strength of the adhesive. The use of the impregnating solution containing graft appolymer incrusses the bond strength by 45-69% as compared to the initial value. By combining impregnation of the fabric with a solution of epoxyamide realn (No. 89) and impregnation with a solution of an elastomer and a graft copolymer, the bond strength between the rubber and the fabric was almost doubled as compared to the strength obtained by impregnating only with epoxyamide, and increased four times as compared to materials based on nonimpregnated Capron fabric. Other modifications of the method of localized neutron irradiation permit the bond strength to be increased to 4.1 kg/cm, this value being limited by the coheston of the rubber coating. 16 This variant of the method will be described in a subsequent publication. Orig. art. has: 1 figure and 3 tables.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Chemical physics institute AN SSSR); Moskovskiy institut tonkoy khimicheskoy tekhnologii in. M. V. Lomonogova (Moscow fine chemical technology institute) SUBMITTED: 18Apr62 ENCL: 00

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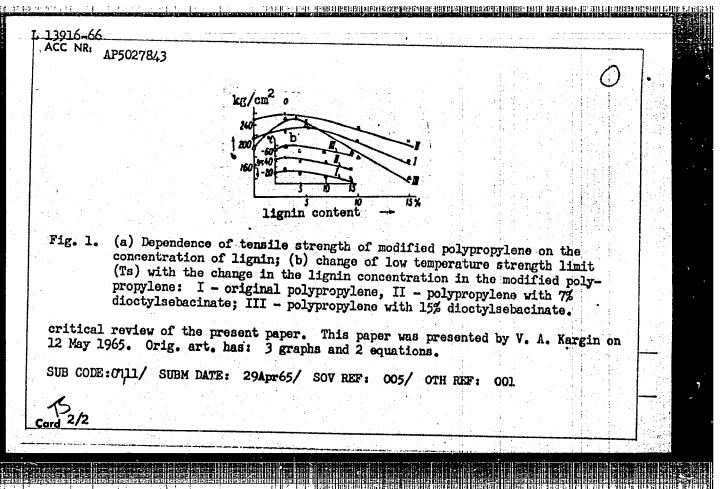
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L 54706-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM ACCESSION NR: AP5014522 UR/0069/65/027/003/0341/0345 541.182.64:541.64 AUTHOR: Gul', V. Ye.; Penskaya, Ye. A.; Kuleznev, V. N. TITLE: Evaluation of the compatibility of polymers SOURCE: Kolloidnyy zhurnal, v. 27, no. 3, 1965, 341-345 TOPIC TAGS: polyethylene, solubility, polymer property, viscosity ABSTRACT: The authors show that deviation of the specific viscosity of a polymer solution from additivity cannot be used as a criterion in evaluating polymer compatibility. Difference fractions of polyethylene taken from one sample served as models of compatibility of polymers. The viscosity of solutions of light and heavy fractions of polyethylene was measured at 75±0.1°C in a dapillary viscos!meter. The solution of the high colecular fraction was dissolved directly in the viscosimeter by the low molecular fraction so that the total condentration of the polymer remained the same but only the ratio of the components changed. It was shown that the experimental curves do not agree with the additive curves even when the mixtures consisted of two fractions of the same rolymur. Two compatibility Card 1/2

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mains thermodynamically stab changes in the properties of practical use of the polymer	interval of concentration le. The latter is determ the system do not exceed mixture. Orig. art. has	ns within which the system re- mined by the period where I the permissible limits during I: I figure and I table.
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lennosti (Moscow Technologic skiy institut tonkoy khimich tute of Fine Chemical Techno SUBMITTED: 02Jan64	al Institute of the Meateskoy tekhnologii im. M. logy) ENCL: 00	and Dairy Industry); Moskov- V. Lomonosova (Moscow Insti-
lennosti (Moscow Technologic skiy institut tonkoy khimich tute of Fine Chemical Techno SUBMITTED: 02Jan64	al Institute of the Meateskoy tekhnologii im. M. logy) ENCL: 00	and Dairy Industry); Moskov- V. Lomonosova (Moscow Insti-

L 41163-65 EWT(m)/EPF(c)/EWP(1)/EPR/EWP(J)/T Po-1/Fr-4/Pa-4 BM/WR ACCESSION NR: AP5007169 5/d2 06/65/000/003/0030/00009 9/ AUTHOR: Gul', V. Ye.; Shenfil', L. Z.; Hel'nikova, G. K.; Porosyetnikova, T. F Pil'menshteyn; T. D. TITLE: Adhesive Paste. Class 22, No. 167927 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 3, 1965, 39 TOPIC TAGS: adhesive material, epoxy resin ABSTRACT: This Author's Certificate introduces an adhesive paste based on epox resin plasticized with Thickol and hardened with amines or anhydrides of dibasic acids. In order to produce an electrically conductive pasts with low resistivity and a low temperature coefficient of resistance, nickel powders with various particle sizes are added. ASSOCIATION: Nauchno-issledovatel skiy institut rezinovykli i lateksnykh izdeliy (Scientific Research Institute of Rubber and Lavex Products) SUPMITTED: 04Jan64 ENCL: 00 SUB CODE М NO REF SOV: 000 OTHER: 000 Card 1/1 me

CONTROL OF THE CONTRO L 13916-66 EWT(m)/EWP(j)/T/ETC(m)-6 FM/WW CC NR: AP5027843 SOURCE CODE: UR/0020/65/165/001/0110/0113 AUTHORS: Gul', V. Ye.; Lyubeshkina, Ye. G. ORG: Moscow Technological Institute for Meat and Dairy Industry (Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti) TITLE: Investigation of the interaction products of polypropylene with alkali sulfate lignin SOURCE: AN SSSR. Doklady, v. 165, no. 1, 1965, 110-113 TOPIC TAGS: polymer, polypropylene, polymer chemistry, high polymer, tensile strongth ABSTRACT: The effect of adding alkali sulfate lignin and dioctylsebacinate plasticizer to polypropylene task studied to increase the strength of polypropylene at low temperatures. The reaction was carried out at 220C. The degree of swelling in decalin solution, the deformation at 130C, and the strength of the modified polypropylene as a function of lignin concentration were determined. The experimental results are summarized graphically (see Fig. 1), and a reaction mechanism is proposed. It was found that the strength of the modified polymer did not differ significantly from that of the original polymer, but that the addition of 15% of plasticizer and 4% of lignin lowered the thermal stability limit from -18C (for the original polymer) to -65C. The authors thank V. A. Kargin for his advice and Card 1/2 541.6.68



 L 14611-66 FWT(m)/FWP(j) RM ACC NR; AP6001498 SOURCE CODE: UR/0197/65/000/012/0026	7	۰
ACC NA: AP6001498 SOURCE CODE: UR/0191/65/000/012/0024/0026 AUTHORS: Yermilova, G. A.; Rogovaya, E. M.; Guli, V. Ye. 32		٠.
ORG: none		
TITLE: Investigation of crystallinity and orientation during processing of poly- propylene film by extrusion and pneumatic stretching		
SOURCE: Plasticheskiye massy, no. 12, 1965, 24-26		
TOPIC TAGS: polypropylene plastic, polycrystalline film, crystal orientation / ISO-tk-61 method, UP-30 pneumatic stretching machine		
ABSTRACT: Results from the investigation of the changes in crystallinity and orientation in polypropylene during the process of film formation are presented. This		
film processing and its mechanical properties (G. A. Yermilova, I. Ya. Slonim, and Ya. M. Urman. Plast. massy. No. 11. 28. 1964 V. Ya. Chil. V. V. Tarrish R. V.		
methods were used in this study: 1) nuclear magnetic responses to determine		
dynamic degree of crystallinity; 2) x-ray study of crystallinity; 3) structure study under a polarizing microscope with crossed nicols; 4) determination of the fusion index, using method ISO/tk-61 at 2300 and load of 10 kg sec; 5) the "napkin" method		
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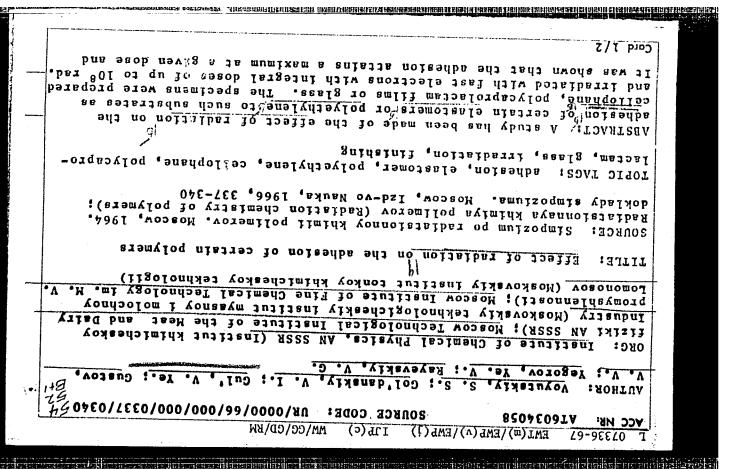
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	AUTHOR: Gul', V. Ye.; Kovriga, V. V.; Rogovaya, E. M.; Gromova, N. P.	
	ORG: Department of Polymer Chemistry and Technology, Moscow Technological Institute	
\dashv	of the Meat and Dairy Industry (Kafedra khimii i tekhnologii polimerov, Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti)	
	TITLE: Study of the effect of supermolecular structures of isotactic polypropylene on its mechanical properties	
	SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 9, no. 3, 1966, 486-490	
	TOPIC TAGS: polypropylene plastic, polymer structure, mechanical property	
	ABSTRACT: The authors continue their study of the relationship between the crystal structure and mechanical properties of polypropylone by considering the relationship between the strength characteristics (breaking stress and elongation at rupture) and the size of spheroidal aggregates in films of isotactic polypropylene. The dynamic degree of crystallinity of the films was determined from NMR data, and found to remain unaffected by the formation of spherulites of various sizes. The strength characteristics decrease substantially with increasing spherulite size. In the presence of spherulites $\geq 165~\mu$ in size, brittle failure of the material takes place under the deformation conditions employed. Failure along the spherulite boundaries and in the spherulites themselves is equally probable. The causes of change in the character of	
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[Technology of polymeric materials; methodological textbook for practical work] Tekhnologiia polimernykh materialov. Pod red. V.E.Gulia. Moskva, Mosk. tekhnolog.

D'YAKONOVA, V.P.; GUL', V.Ye., prof., red.

in-t miasnoi i molochnoi promyshl., 1964. 114 p.
(MIRA 18:12)



quiA Card 2/2 TOTS ATD PRESS: 006/ OTH REF: 002 SUBM DATE: 25Jul66/ ORIG REF: /11 '40 ang cons: Orig. art. has: 4 figures. modified substrate. diffusion phenomena, to chemical bonding between the adhesive and the comprued treatment was attributed, in addition to the acceleration of vinylerichlorosilane finishing of the substrate with irradiation with doses up to a x 10 x zod. The high adhesion of systems subjected to this polyethylene to glass was increased to about 400 s/cm by combining radiation withstood by the substrate) to attain ~ 275 g/cm. Adhesion of cellophane, adheston increased with dose up to ~ 107 rad (maximum cellophane or glass finished with vinyltrichlorosilane. In the case of High adheaton was attained by irradiation of specimens prepared with rubbers) which causes shrinkage stresses, or as degradation (butyl rubber). as cross-linking in the elastomers (butadiene-styrene and nitrile the adhesion with a further increase of the dose was explained either diffusion of macromolecular segments in the contact zone. The drop of adheston was attributed to the radiation-induced acceleration of the then drops with a further increase of the dose. The increase of the ACC NR: AT6034058 49-98840 1

ACC NR: AP7007298

SOURCE CODE: UR/0020/67/172/003/0637/0640

AUTHOR: Gul', V. Ye.; Dvoretskaya, N. M.; Popova, G. G.; Rayevskiy, V. G.

ORG: Moscow Technological Institute of the Meat and Dairy Industry (Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti)

TITLE: Strengthening effect in composite materials

SOURCE: AN SSSR. Doklady, v. 172, no. 3, 1967, 637-640

TOPIC TAGS: cellulose plastic, polyethylene, saran, runture strength, adhesive

ABSTRACT: The paper is devoted to a study of the influence of temperature on the physicomechanical properties of two-layer film materials under tension. The systems consisted of two identical substrate films (high-pressure polyethylene, saran, cellophane, cut out in the longitudinal and transverse direction) joined by a layer of viscoelastic binder (a 25% benzine solution of a mixture of polyisobutylenes with MW of 200,000 and 20,000 in the proportion of 1:9). The temperature variation of the cohesive strength of two-layer materials was found to obey the equation $\sigma_D = Av^neu/RT$, where σ_D is the breaking strength, A is a constant for a given type of sample, u is the "apparent" activation energy required for failure, v is the deformation rate, and n a coefficient determined by the rate of dissipation of the stresses at the point of growth of the region of failure. The experimental relation $\ln \sigma = f(1/T)$ for two-

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ACC NR: AP7007298

layer and one-layer materials is characterized by the same values of the apparent activation energy of failure. It is shown that as the strength of the bond between the layers increases (with changing temperature), the strength of the two-layer material also increases. The established strengthening effect is explained by the blockage of the defects of one layer by the defect-free carts of the other, and the dissipation of stress concentration at sufficiently large values of the bonding strength between the layers. The paper was presented by Academician Kargin, V. A., 9Apr66. Orig. art. has: 4 figures, 1 table and 1 formula.

SUB CODE: 11/ SUBM DATE: 28Mar66/ ORIG REF: 003

Card 2/2

ACC NR: AP6017974

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INVENTORS: Gul', V. Ye.; Zakharchenko, P. I.; Belyatskaya, O. N.; Gorbatova, K. A.; Gorbachev, Yu. G.

ORG: none

TITLE: A method for obtaining a film-making material. Class 39, No. 181806

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 79.

TOPIC TAGS: hydrochloric acid, rubber, isoprene, polymer, sorbic acid

ABSTRACT: This Author Certificate presents a method for obtaining a film-making material by hydrochlorination of l,4-cis-isoprene rubber. A modifier is introduced in the course of film making. To impart the preserving properties to the film and to-increase its resistance to aging, sorbic acid is used as the modifier.

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SUBM DATE: 02Jan63

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UDC: 678.474.3.046.9:62-416

(MIRA 17:4)

GUL', V., prof.

New polym ric materials for the meat industry. Miss.ind.SSSR

35 no.1:9-10 '64.

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

ACCESSION NR: AP4030382

\$/0063/64/009/002/0236/0238

AUTHOR: Rayevskiy, V. G.; Gul', V.G.; Zamy*slov, V. B.; Voyutskiy, S. S.

TITLE: Diffusion phenomena in polymer mixtures

SOURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnal. v. 9, no. 2, 1964, 236-238

TOPIC TAGS: polymer, diffusion, polyethylene polybutadiene mixture, microscopic analysis, mechanical property, filler, dispersiveness, incompatible polymer, polymer homogenization

ABSTRACT: The role of diffusion phenomena in mixed polymers was investigated and confirmed. Microscopic examination of films made of mixtures of low-pressure polyethylene and SKB-30 polybutadiene (15:85 parts by weight) revealed a gradual homogenization of the polyethylene filler particles with the polybutadiene, wherein the originally easily visible discrete particles appeared to dissolve in the matrix to form a fine granular structure which did not change toward the end of the 80-day test period. Mechanical properties of mixtures of polyethylene-

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ACCESSION NR: AP4030382

polybutadiene (30:70) were examined. The tensile strength increased to a maximum in 18-35 days, then decreased and leveled off after 80 days. This increase is explained by increased adhesion of the elastomer to the polyethylene filler; and the decrease, by the increased dispersion of the filler which reduces its strengthening properties. Elongation increased with increased homogenization of the system. Thus, in mixed systems the diffusion process leads to partial homogenization. In mixtures of incompatible polymers, diffusion would have the opposite effect, promoting separation and transition from a microheterogeneous to a macroheterogeneous system. Orig. art. has: 2 figures.

ASSOCIATION: Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promy* shlennosti (Moscow Technological Institute for the Meat and Milk Industry)

SUBMITTED: 26Oct63

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Card 2/2

Jul', V. Ye.

Dissertation: "Influence of Swelling on the Mechanical Properties of Vulcanized
Rubber."

13 June 49

Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov.

ा । इस रूप १०० । विसास में समामक हो सम्बन्ध का सम्बन्ध समामक स्थापन के समामक स्थापन के समामक स्थापन के समामक स

KUVSHINSKIY, Ye.V.; BESSONOV, M.I.; ZAKHAROV, S.K.; SIDOROVICH, A.V.; GUHERKO, A.B.; PANFEROV, K.V.; GUL!, V.Ye.; LOMAKIN, V.A.; TSIPES, L.Ya.; CHERNYAKINA, A.F.; SAKHNOVSKIY, Z.L.; SHCHERBAK, P.N.; AL'SHITS, I. Ya.

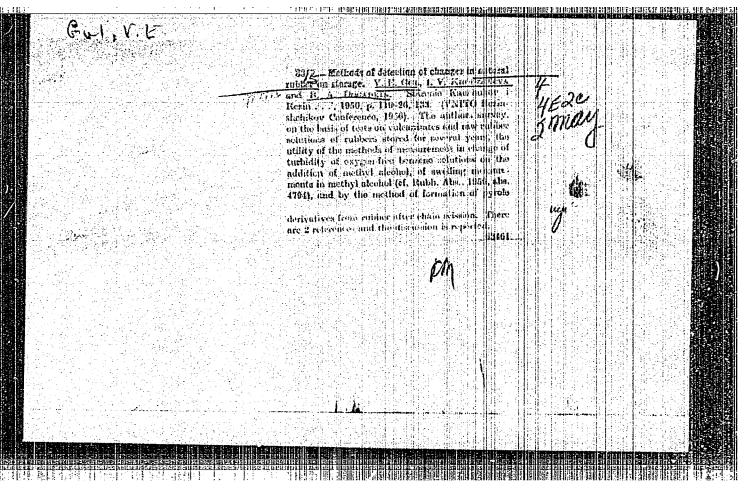
Answers to the inquiry concerning the determination of the physical and mechanical properties of plastics. Zav.lab. 26 no.1:7-28 (MIRA 13:5)

1. Institut vysokomolekulyarnyth soyedineniy AN SSSR. (for Kuvshinskiy Bessonov, Zakharov, and Sidorovich). 2. Tšentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy (for Gubenko and Panferov). 3. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova (for Gul').

4. Moskovskiy gosudarstvennyy universitet imeni M.V. Lononosova. Problemnaya laboratoriya fiziko-mekhanicheskich svoystv polimerov (for Lomakin). 5. Zavod "Karbolit" (for Tšipes, Chernyakina and and Sakhnovskiy). 6. Gosudarstvennyy nauchno-issledovatel'skiy institut polimerisatsionnykh plastmass (for Shcherbak).

7. Tšentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya (for Al'shits)

(Plastics-Testing)



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USSR/Engineering - Testing, Equipment		"Zavod Lab" No 12, pp 1517-1519	Device permits various studies of rubber such a plotting load-deformation diagrams, observation of changes in length under const load and after its removal, observation of stress relaxation at const load and after		USSR/Engineering					
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AUTHOR: TITLE:

GUL', V.E., KRUTETSKAYA, G.P.

An Experimental Investigation of Highly Elestic Polymere Specimens as to the Relation between the Rate of their

Rupture Process and the Rate of Deformation. (Eksperimental noye issledovaniye zaviszimosti skorosti vysokoelasticheskogo

razryva ot skorosti deformatsii obraztsa, Russian) Doklady Akadomii Nauk SSSR, 1957, Vol 114, Nr 5, pp 973-975

PERIODICAL: (U.S.S.R.)

ABSTRACT:

The authors here investigate the rules governing the growth of ruptures in connection with the influence exercised by various factors: The amount of damage, the velocity of deformation, the deforming stress, and the specific cohesion energy of the vulcanized substance. For this purpose samples of unfilled vulcanized substances of nitryl choutchoucs SKN-18, SKN-26 and SKN-40 with the same degree of transversal cohesion were used. The rectangular samples., which had a breadth of 50 mm, had incisions of 5, 2,3, and 1,0 mm length which were arranged so as to be transverse to the deformation axis. Also samples without incisions were used. Tests were carried out with a breaking-up

machine at velocities of 100, 200, 500, and 1000 mm/min. The dependence of the velocity of growth of the rupture on the various

factors was studied on the basis of slow-motion pictures.

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An Experimental Investigation of Highly Elastic Polymere Specimens as to the Relation between the Rate of their Rupture Process and the Rate of Deformation.

All experimental data were obtained at +40°. Also temperature exercises essential influence on the kinetic of the growth of the rupture. The results obtained are illustrated in form of diagrams.

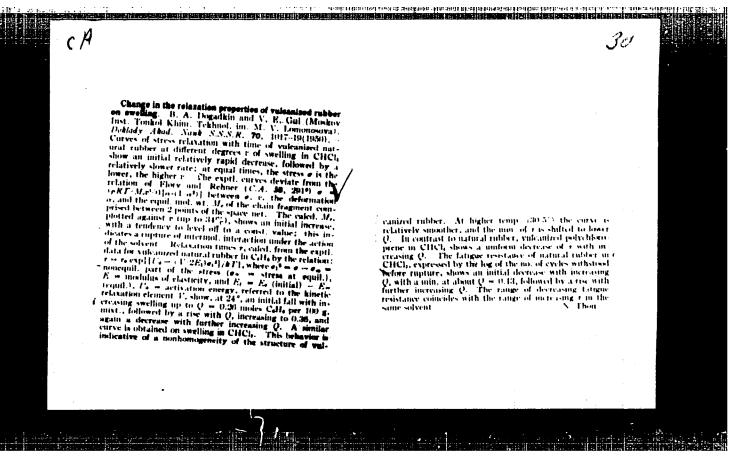
The growth velocity of the rupture remains immeasurably low nearly during the entire duration of the test if the deformation method described is used, but it then increases quickly and abruptly. In the initial stage of deformation an additional deformation takes place in the apex of the incision, and therefore also an additional orientation of the material takes place. With increasing relative length of the incision the time interval between the beginning of the deformation and the rupture diminishes. In the case of all samples investigated I diminishes with increasing deformation velocity. (With 4 illustrations)

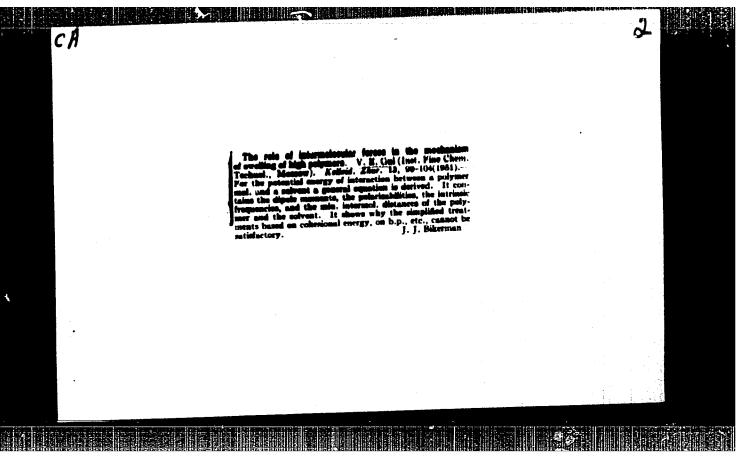
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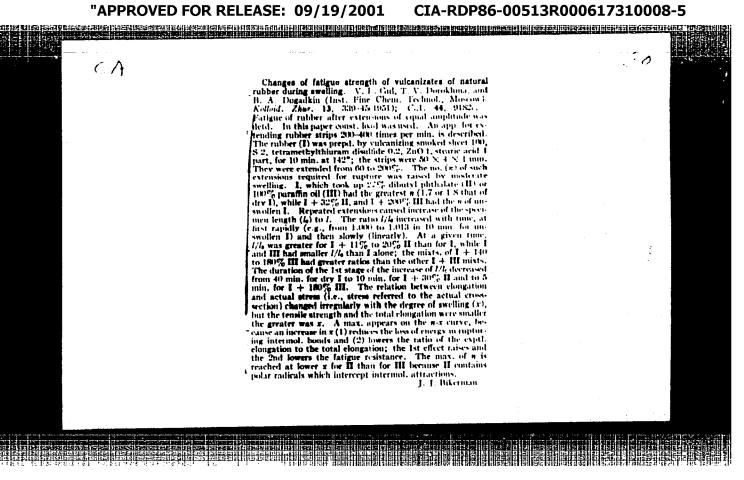
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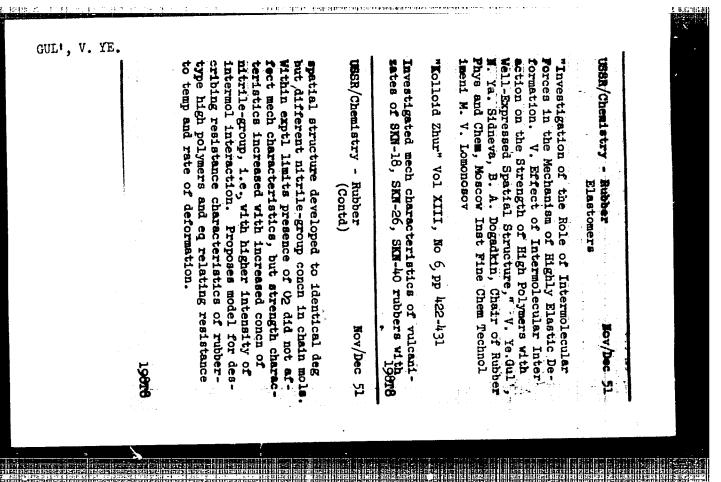
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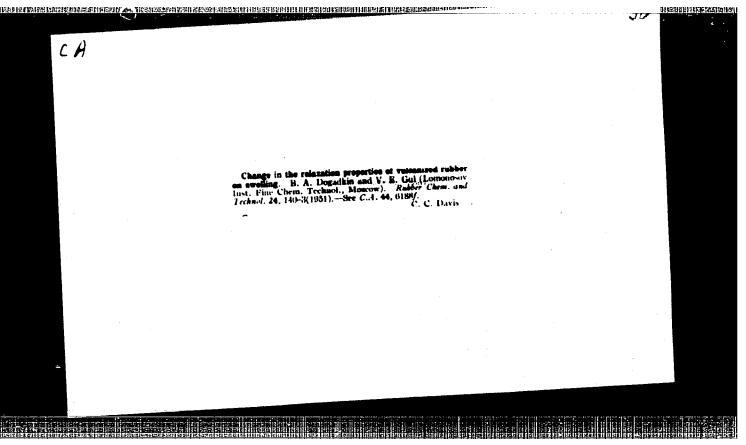




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GUL', V. YE.

USSR/Chemistry - Plastics

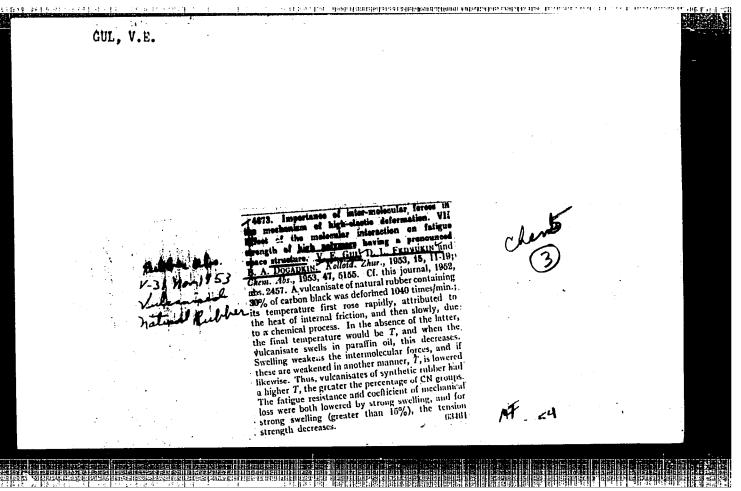
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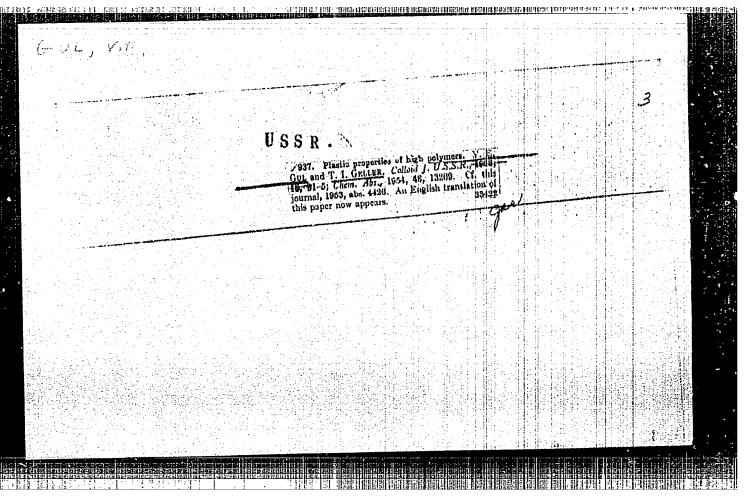
"The Influence of Molecular Interaction on the Stability of High Polymers With Developed Spatial Structure," V. Ye. Gul', Moscow Inst of Fine Chem Technol in ani M. V. Lomonosov

"Dok Ak Nauk SSSR" Vol LXXXV, No 1, pp 145-148

The mechanism of rupture of high polymers with developed spatial structure for ideal, noncryst, uniform materials is treated mathematically. Eqs relating the stability with viscosity, temp, and rate of longitudinal displacement of the cross section are given. Presented by Acad P. A. Rebinder 8 Apr 52.

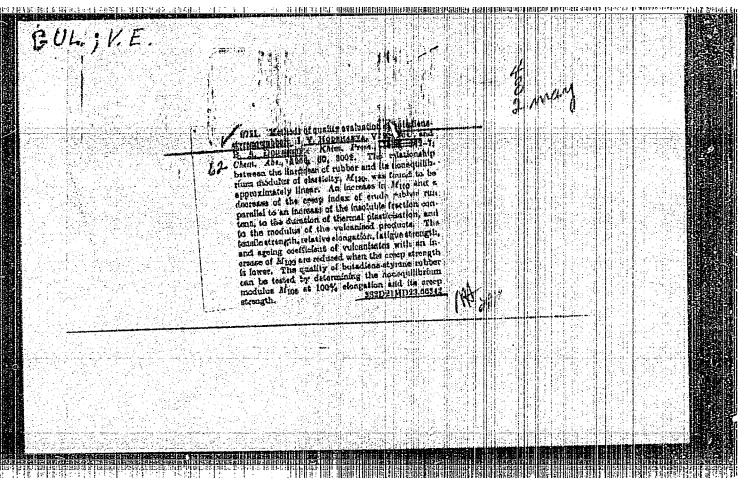
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Rubber Abst. Vol. 31 Nov. 1953 Grude Rubber

4426. Plastic properties of high polymers. V. E. Gül and T. I. Geller. Kolloid. Zhur., 1953, 15, 35-90; Chem. Abs., 1953, 47, 7818. An equation for the viscosity of a polymer in terms of the rate of plastic extension of a specimen at a constant true stress is given. Smoked sheet with mol. wt. 183,000 was first extended, keeping the ratio of force to the cross-section constant. Thus the increase time of the total, plastic, and high-elastic deformation was determined. The specimen was extended again, keeping constant the ratio of force to the cross-section as it would have been in the absence of high-elastic deformation. From these measurements and the equation referred to above, the viscosity was 2.5 x 10 33422



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